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$$\mu_D = 100 \quad \mu_C = 120$$

$$\sigma_D = 30 \quad \sigma_C = 35$$

$$\textcircled{a} \mu_{D-C} = \mu_D - \mu_C = \textcircled{-\$20}$$

$$\textcircled{b} \sigma_{D-C} = \sqrt{\sigma_D^2 + \sigma_C^2} = \sqrt{(30^2) + (35^2)} = \textcircled{\$46.10}$$

\textcircled{c} Normalcdf

$$P(D > C)$$

$$P(D-C > 0) = \text{normalcdf}(0, \infty, -20, 46.10) = 0.3322$$